GRAMATICA\_PASCAL = (VARIAVEIS, TERMINAIS, REGRAS, START)

VARIAVEIS = {

START,

LISTADEC,

DEC,

LISTAID,

TIPO,

BLOCOM,

LISTACOM,

COM,

BLIF,

BLELSE,

LISTAEXP,

EXP,

OP,

OP1,

OP2,

OP3,

UNI

}

TERMINAIS = {

[PROGRAM],

[ID],

[PTVIR],

[VAR],

[DOISPT],

[VIRG],

[REAL],

[BOOLEAN],

[BEGIN],

[END],

[READ],

[APAR],

[FPAR],

[WRITE],

[ATRIB],

[IF],

[THEN],

[ELSE],

[IGUAL],

[DIF],

[MAIOR],

[MENOR],

[MAIORIG],

[MENORIG],

[AND],

[OR],

[NOT],

[SOMA],

[SUBT],

[MULT],

[DIV],

[DIVINT],

[CONST],

[BOOL]

}

REGRAS = {

START -> **[PROGRAM] [ID][PTVIR] [VAR]** LISTADEC BLOCOM

LISTADEC -> **[ID]**LISTAID **[DOISPT]** TIPO**[PTVIR]** DEC

DEC -> **[ID]**LISTAID **[DOISPT]** TIPO**[PTVIR]** DEC | **ε**

LISTAID -> **[VIRG]** **[ID]**LISTAID | **ε**

TIPO -> **[REAL]** | **[BOOLEAN]**

BLOCOM -> **[BEGIN]** COM LISTACOM **[END]**

LISTACOM -> **[PTVIR]** COM LISTACOM | **ε**

COM -> **[READ][APAR][ID]**LISTAID**[FPAR]** | **[WRITE][APAR]**EXP OP LISTAEXP**[FPAR]** | **[ID] [ATRIB]** EXP OP | BLIF

BLIF -> **[IF]** EXP OP **[THEN]** BLOCOM BLELSE

BLELSE -> **[ELSE]** BLOCOM | **ε**

LISTAEXP -> **[VIRG]** EXP OP LISTAEXP | **ε**

EXP -> **[NOT]** UNI OP3 OP2 OP1 | UNI OP3 OP2 OP1

OP -> **[IGUAL]** EXP | **[DIF]** EXP | **[MAIOR]** EXP | **[MENOR]** EXP | **[MAIORIG]** EXP | **[MENORIG]** EXP | **ε**

OP1 -> **[AND]** EXP | **[OR]** EXP | **ε**

OP2 -> **[SOMA]** UNI OP3 OP2 | **[SUBT]** UNI OP3 OP2 | **ε**

OP3 -> **[MULT]** UNI OP3 | **[DIV]** UNI OP3 | **[DIVINT]** UNI OP3 | **ε**

UNI -> **[APAR]**EXP OP**[FPAR]** | **[ID]** | **[CONST]** | **[BOOL]**

}